In the claims:

1.   A name resolution server which conducts name resolution with respect to a received name resolution request message and returning a result of said name resolution by a name resolution response message, which
5   obtains,

        based on information contained in said name resolution request message, attribute information regarding a user as a sender which is not contained in the name resolution request message to conduct said name
10   resolution based on the attribute information.

2.   A name resolution server which conducts name resolution with respect to a received name resolution request message and returning a result of said name resolution by a name resolution response message,
5   comprising:

        a user information obtaining unit which obtains, as attribute information regarding a user as a sender of said received name resolution request message, said attribute information other than information contained
10   in said name resolution request message, and

        a response generation unit which conducts said name resolution by using said attribute information obtained by said user information obtaining unit to generate a name resolution response message.

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3.   The name resolution server as set forth in claim 2, wherein

said attribute information obtained by said user information obtaining unit are of two or more kinds.

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4.   The name resolution server as set forth in claim 2, wherein

said attribute information obtained by said user information obtaining unit includes

5   at least arbitrary one of a user ID, user location information, information regarding a terminal used and information regarding a network including a kind of connection line, a connection line speed and an IP address of a connected NAS.

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5.   The name resolution server as set forth in claim 2, further comprising

as an internal element, a user information database in which said attribute information is stored,

5   wherein

said user information obtaining unit obtains said attribute information from said user information database.

6.   The name resolution server as set forth in claim 2, wherein

said user information obtaining unit obtains said attribute information from an external database server having a user information database in which said attribute information is stored.

7.   The name resolution server as set forth in claim 6, wherein

said user information obtaining unit uses a name resolution request message in obtaining said attribute information from said external database server.

8.   The name resolution server as set forth in claim 6, wherein

said external database server is other name resolution server externally disposed.

9.   The name resolution server as set forth in claim 2, wherein

said response generation unit transmits a name resolution request message containing said attribute information obtained by said user information obtaining unit to other name resolution server to execute processing of making said name resolution be conducted at said other name resolution server.

10.   The name resolution server as set forth in claim 5, further comprising:

an authentication information obtaining unit which obtains, from an authentication server which authenticates a user in response to an authentication request from said user, said attribute information obtained when said authentication server conducts authentication processing of said user, and

a user information updating unit which updates the contents of said user information database based on said attribute information obtained.

11. The name resolution server as set forth in claim 10, wherein

said authentication information obtaining unit detects a change of log-in statuses of a user and when the user logs in, the user information updating unit registers information indicative of the log-in statuses and said attribute information at said user information database and when the user logs out, deletes said information indicative of the log-in statuses and said attribute information from said user information database.

12. The name resolution server as set forth in claim 10, wherein

said authentication information obtaining unit obtains said attribute information by using a Proxy function in a RADIUS protocol.

13.   The name resolution server as set forth in claim
10, wherein

        said authentication information obtaining unit
obtains said attribute information by using a Relay
5   function in a RADIUS protocol.

14.   The name resolution server as set forth in claim
10, wherein

        said authentication information obtaining unit
obtains said attribute information by using an NFS
5   protocol.

15.   The name resolution server as set forth in claim
10, wherein

        said authentication information obtaining unit
obtains said attribute information by using an SNMP
5   protocol.

16.   The name resolution server as set forth in claim
10, wherein

        said user information updating unit uses a DNS
Dynamic Update function for updating the contents of
5   said user information database.

17.   A packet transfer device which transfers a
received packet to other node, wherein

control of a packet transfer method as a method of transferring said received packet to said other node

5   is conducted based on information contained in a name resolution response message transmitted from a name resolution server to a client.

18.   A packet transfer device which transfers a received packet to other node, comprising

a DNS proxy unit which once receives a name resolution response message transmitted from a name

5   resolution server to a client and rewrites the contents of a routing table in which a packet transfer method as a method of transferring said received packet to said other node is held based on information contained in said name resolution response message.

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19.   The packet transfer device as set forth in claim 17, wherein

said packet transfer method includes at least one of packet transfer priority, a logical network ID, a

5   logical channel ID, and header rewriting, addition and deletion methods.

20.   The packet transfer device as set forth in claim 18, wherein

in response to said name resolution response message once received, said DNS proxy unit deletes

5   information regarding said packet transfer method among information contained in said name resolution response message to transmit said name resolution response message obtained to said client.

21.   A packet transfer device which transfers a received packet to other node, comprising:

a user information obtaining unit which obtains attribute information regarding a user as a sender of a

5   name resolution request message transmitted from a client to a name resolution server, and

a DNS proxy unit which once receives said name resolution request message, obtains attribute information regarding the user of said name resolution

10   request message through said user information obtaining unit and adding said attribute information to said name resolution request message to transmit said name resolution request message obtained to said name resolution server.

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22.   The packet transfer device as set forth in claim 18, further comprising

a user information obtaining unit which obtains attribute information regarding a sender of a name

5   resolution request message transmitted from said client to said name resolution server, wherein

said DNS proxy unit once receives said name

resolution request message, obtains attribute

information regarding the sender of said name resolution

10 request message through said user information obtaining

unit and transmits said name resolution request message

with said attribute information added to said name

resolution server.

23. The packet transfer device as set forth in claim

21, further comprising,

as an internal element, a user information

database in which said attribute information is stored,

5 wherein

said user information obtaining unit obtains said

attribute information from said user information

database.

24. The packet transfer device as set forth in claim

21, wherein

said user information obtaining unit obtains said

attribute information from an external database server

5 having a user information database in which said

attribute information is stored.

25. The packet transfer device as set forth in claim

24, wherein

said user information obtaining unit uses a name

resolution request message in obtaining said attribute

5   information from said external database server.

26.   The packet transfer device as set forth in claim

21, wherein

        said external database server is a name

resolution server externally disposed.

5

27.   The packet transfer device as set forth in claim

23, further comprising:

        a user authentication unit which identifies and

authenticates a user at a client connected to its own

5   node, and

        a user information updating unit which updates

the contents of said user information database based on

attribute information regarding said user obtained at

the time of authentication.

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28.   A name resolution server which conducts name

resolution with respect to a received name resolution

request message and returns a result of said name

resolution by a name resolution response message,

5   wherein

        said name resolution response message contains a

packet transfer method at a packet transfer device.

29.   The name resolution server as set forth in claim

1, wherein

said name resolution response message contains a
packet transfer method at a packet transfer device.

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30. A name resolution program operable on a name
resolution server which executes processing of
conducting name resolution with respect to a received
name resolution request message and returning a result
of said name resolution by a name resolution response
message, comprising

a function of obtaining, based on information
contained in said name resolution request message,
attribute information regarding a user as a sender which
is not contained in the name resolution request message
to conduct said name resolution based on the attribute
information.

31. A name resolution program operable on a name
resolution server which executes processing of
conducting name resolution with respect to a received
name resolution request message and returning a result
of said name resolution by a name resolution response
message, comprising:

a user information obtaining function of
obtaining, as attribute information regarding a user as
a sender of said received name resolution request
message, said attribute information other than
information contained in said name resolution request

message, and

a response generation function of conducting said name resolution by using said attribute information obtained by said user information obtaining function to generate a name resolution response message.

32. The name resolution program as set forth in claim 31, wherein

said attribute information obtained by said user information obtaining function are of two or more kinds.

33. The name resolution program as set forth in claim 31, wherein

said attribute information obtained by said user information obtaining function includes

at least arbitrary one of a user ID, user location information, information regarding a terminal used and information regarding a network including a kind of connection line, a connection line speed and an IP address of a connected NAS.

34. The name resolution program as set forth in claim 31, further comprising,

as an internal element, a user information database in which said attribute information is stored, wherein

said user information obtaining function obtains

said attribute information from said user information
database.

35.   The name resolution program as set forth in claim
31, wherein
        said user information obtaining function obtains
said attribute information from an external database
server having a user information database in which said
attribute information is stored.

36.   The name resolution program as set forth in claim
35, wherein
        said user information obtaining function uses a
name resolution request message in obtaining said
attribute information from said external database server.

37.   The name resolution program as set forth in claim
35, wherein
        said external database server is other name
resolution server externally disposed.

38.   The name resolution program as set forth in claim
31, wherein
        said response generation function transmits a
name resolution request message containing said
attribute information obtained by said user information
obtaining function to other name resolution server to

execute processing of making said name resolution be
conducted at said other name resolution server.

39.   The name resolution program as set forth in claim
34, further comprising:

an authentication information obtaining function
of obtaining, from an authentication server which
5   authenticates a user in response to an authentication
request from said user, said attribute information
obtained when said authentication server conducts
authentication processing of said user, and

a user information updating function of updating
10   the contents of said user information database based on
said attribute information obtained.

40.   The name resolution program as set forth in claim
39, wherein

said authentication information obtaining
function detects a change of log-in statuses of a user
5   and when the user logs in, the user information updating
function registers information indicative of the log-in
statuses and said attribute information at said user
information database and when the user logs out, deletes
said information indicative of the log-in statuses and
10   said attribute information from said user information
database.

41.   The name resolution program as set forth in claim
39, wherein

said authentication information obtaining
function obtains said attribute information by using a
5   Proxy function in a RADIUS protocol.

42.   The name resolution program as set forth in claim
39, wherein

said authentication information obtaining
function obtains said attribute information by using a
5   Relay function in a RADIUS protocol.

43.   The name resolution program as set forth in claim
39, wherein

said authentication information obtaining
function obtains said attribute information by using an
5   NFS protocol.

44.   The name resolution program as set forth in claim
39, wherein

said authentication information obtaining
function obtains said attribute information by using an
5   SNMP protocol.

45.   The name resolution program as set forth in claim
39, wherein

said user information updating function uses a

DNS Dynamic Update function for updating the contents of

5   said user information database.

46.   A packet transfer program operable on a packet

transfer device which conducts processing of

transferring a received packet to other node, comprising

        a function of conducting control of a packet

5   transfer method as a method of transferring said

received packet to said other node based on information

contained in a name resolution response message

transmitted from a name resolution server to a client.

47.   A packet transfer program operable on a packet

transfer device which conducts processing of

transferring a received packet to other node, comprising

        a DNS proxy function of once receiving a name

5   resolution response message transmitted from a name

resolution server to a client and rewriting the contents

of a routing table in which a packet transfer method as

a method of transferring said received packet to said

other node is held based on information contained in

10   said name resolution response message.

48.   The packet transfer program as set forth in claim

46, wherein

        said packet transfer method includes at least one

of packet transfer priority, a logical network ID, a

5 logical channel ID, and header rewriting, addition and deletion methods.

49. The packet transfer program as set forth in claim 47, wherein

  in response to said name resolution response message once received, said DNS proxy function deletes

5 information regarding said packet transfer method among information contained in said name resolution response message to transmit said name resolution response message obtained to said client.

50. A packet transfer program operable on a packet transfer device which conducts processing of transferring a received packet to other node, comprising:

5 a user information obtaining function of obtaining attribute information regarding a user as a sender of a name resolution request message transmitted from a client to a name resolution server, wherein

  a DNS proxy function is executed of once

10 receiving said name resolution request message, obtaining attribute information regarding the user of said name resolution request message through said user information obtaining function and adding said attribute information to said name resolution request message to

15 transmit said name resolution request message obtained

to said name resolution server.

51.   A name resolution method by a name resolution
server which executes processing of conducting name
resolution with respect to a received name resolution
request message and returning a result of said name
resolution by a name resolution response message,
comprising

     the step of obtaining, based on information
contained in said name resolution request message,
attribute information regarding a user as a sender which
is not contained in the name resolution request message
to conduct said name resolution based on the attribute
information.

52.   A name resolution method by a name resolution
server which executes processing of conducting name
resolution with respect to a received name resolution
request message and returning a result of said name
resolution by a name resolution response message,
comprising the steps of:

     obtaining, as attribute information regarding a
user as a sender of said received name resolution
request message, said attribute information other than
information contained in said name resolution request
message, and

     conducting said name resolution by using said

attribute information obtained to generate a name
resolution response message.

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53.   A packet transfer method which conducts
processing of transferring a received packet to other
node, comprising

        the step of conducting control of the packet

5   transfer method as a method of transferring said
received packet to said other node based on information
contained in a name resolution response message
transmitted from a name resolution server to a client.

54.   A packet transfer method which conducts
processing of transferring a received packet to other
node, comprising

        the step of once receiving a name resolution

5   response message transmitted from a name resolution
server to a client and rewriting the contents of a
routing table in which the packet transfer method as a
method of transferring said received packet to said
other node is held based on information contained in

10   said name resolution response message.

55.   A packet transfer method which conducts
processing of transferring a received packet to other
node, comprising the steps of:

        obtaining attribute information regarding a user

5 as a sender of a name resolution request message transmitted from a client to a name resolution server, and

 once receiving said name resolution request message, obtaining attribute information regarding the

10 user of said name resolution request message by said user information obtaining function and adding said attribute information to said name resolution request message to transmit said name resolution request message obtained to said name resolution server.